



Unlimited  
Rope Solutions

## LIROS Safe Pro

### Declaration of conformity

The manufacturer, the company LIROS GmbH, D-95180 Berg, Siegrubenstraße 7, hereby declares, that the below described rope

**LIROS Safe Pro**  
**kernmantel rope with low elongation**  
**LIROS ref.: 01011-1400**

- matches to the provisions and requirements of commission regulation (EU) 2016/425 of the European Parliament and of the Council of 9th march 2016 about personal protective equipment and that following EN was fulfilled:

**EN 1891:1998**

- is identical to the safety rope, that was subject to the approved inspection body AUVA, Vienna Twin Towers, Wienerbergstraße 11, A-1100 Vienna, certificated type-examination

**Number: 2013-3855**

- is subject to the quality assurance for the final product in accordance with annexe VII under the responsibility of the approved inspection body AUVA, Vienna Twin Towers, Wienerbergstraße 11, A-1100 Vienna (Ref. No. 0511).

Berg, march 01st 2017

Sven Rosenberger  
(managing director)

Karl Friedrich Rosenberger  
(managing director)

### Rope labelling

**CE 0511:** European quality labelling (Ref. number 0511)

**Type:** LIROS GmbH, article number

**EN 1891; A14; 2013:** Technical proof, form, diameter and year of manufacture

**SN:** Serial number for the component

**PB 2013-3855; 2013** Number and year of the test certificate

### Technical Data

Rope form / construction:	round braided kernmantel rope
Rope diameter [mm]:	approximately 14
Cover slippage: [%]	< 1,5
Elongation: [%]	3,4
Raw material core:	high-strength polyamide
Raw material cover:	high-strength polyamide
Raw material seam:	high-strength polyester
Dimensions per longitudinal unit [g/m]:	102 total (54% core; 46% cover)
Breaking load eff. [daN]	4550
Breaking load min. (seam) [daN]	2300
Permissible payload in long-term use [daN]:	500
Year of manufacture:	documented on label under plastic tube
Seam protection:	plastic tube



## Notes

Please read the usage instructions prior to any use.  
Briefing the user on all safety instructions is indispensable.  
The test book must be filled out by a skilled person before first use and kept with the rope during the whole life cycle of the rope.  
The rope must be visually checked before every use.  
During use the rope must be permanently protected from contact to oils, acids, alkalis, solvents, sharp edges and open fire.  
Friction may cause heat, which could seriously damage the rope and cause rapid wear and serious abrasion. Melting of the rope may occur for example, with abseiling too fast and from damaging or destroying the rope. The rope should only be used for the intended purpose. For possible emergencies in the usage of rope an emergency rescue plan must exist.  
In case of resale in another country the usage instructions with all information in the relevant national languages shall be provided by the reseller.  
The user's physical as well as mental condition may not restrict the rope's safe use.  
By knotting the ropes the effective breaking load will be diminished up to 50% compared to the rope's linear breaking load.  
The influence of water has no direct effect on the rope's durability during the use, though it may lead to higher inner abrasion in succession of crystallization if icing or germ residues occur.  
Salt crystals may damage the rope and reduce its service life.  
The ropes may only be used in a temperature range from -30°C to +70°C.  
Before every use the seams, the plastic tube and further slings must always be checked visually.

## Important notes on the end connection

In the choice of slings it should be ensured, that these are compatible to the end connection and are authorised for this purpose.  
Related usage instructions must also be considered. During the inspection special attention is needed for inspecting mechanical, thermic or chemical damage. A change of the rope, extension of the rope or combination with other ropes is not permitted. The resulting loads of the rope and the end connections may not be exceeded. The recommended knot for embedding is the „figure eight“ knot. As durable end connection a sewn loop is recommended.

## Application

The braid may be provided with a sewn eye on both ends. The seam or the end is both respectively covered with a plastic tube. A carabine hook can be fixed in the eye.  
The attachment point's load capacity must be sufficient. The connectors may not damage the rope. None of the components may show damages and be pulled over sharp edges in use.  
Before using the rope all used connectors and accessories have to be tested in regards of functionality.  
When using the rope with additional tools please make sure, that the single parts are mutually compatible and comply with UIAA or EN standard and are set and adjusted to the respective rope diameter.  
Safety devices must be designed, constructed and installed, that in case of a dynamic fall the person won't hit the ground or a ledge.  
When in doubt regarding the safe condition of the rope and/or it's end connections, please let it check by a qualified person and don't put it back to service until you receive a positive test result. Damaged, worn or overloaded parts should be replaced immediately, nomore being used and sent back to the manufacturer for testing and replacing if necessary.  
The overall construction may not be changed at any time. Repairs or length changes may only be done by the manufacturer and certified qualified persons.  
Attention: Unused ropes have an initially smooth surface with maybe a reduced grip and brake effect.



# Unlimited Rope Solutions

## Transport

During transport the rope should be kept in a suitable (rope) bag, protecting it from pollution and other environmental influences.

## Storage

When not in use the rope must be protected from UV-radiation.  
The rope should be kept in dry, airy, dark and not too warm room without direct heat exposure.  
Temperature range for storage: from -30 °C to 70 °C.

## Maintenance and care

Cleaning can be done with neutral cleaner in lukewarm water. Disinfection only with appropriate means, having no influence on the synthetic fibre.  
Residues of cleaning agents must be completely removed, because they would have negative effects on the material. The drying may only be done without artificial heating.  
The storage and cleaning recommendations must be strictly adhered to.  
Check the rope before and after each use both physically and visually in regards of possible damages. A regular check of the equipment (including all parts) must be done at least every 12 months by a qualified person, because the user's safety depends on the effectiveness and durability of the entire equipment.  
The results of regular checks and repairs must be documented in the attached test book.  
The manufacturer will provide the usage instructions on request. They have always to be stored with the rope.  
The product labelling is being attached on the labels under the plastic tubes and has to be clearly readable.

## For special attention

Please adjust the intended purpose with LIROS GmbH if necessary. All above mentioned notes are non-binding. Technical modifications through LIROS GmbH are reserved. Please note, that this rope serves as fall protection. Ropes used for free climbing and rescuing, are covered by other EN standards.  
For using this product, special knowledge and practical experience is necessary and required. Only trained persons may use this product. If this is not the case, the user must be under permanent and strict control of a trained person.  
Mistakes caused by ignoring these warnings, increase the risk of being harmed or killed.  
There is a warning about purchasing used ropes and accessories.  
The user is always responsible for any approach and decisions.

## Service life

The service life begins with the manufacturing date and depends primarily on frequency and type of usage. Service life (incl. storage before first use) is restricted to a maximum of 15 years.  
Storage period: with proper storage this product may be stored to a maximum of 5 years, without losing its later service life duration. Service life may potentially last to a maximum of 10 years.

**Attention:** This is the potential service life, but the rope can become unusable with first use. A check may result, that the product must be replaced earlier.

Service life will not exceed 10 years.

Influencing factors on service life are inter alia mechanical stresses, cover abrasion, UV-radiation and moisture.

Between the applications it's imperative to store the rope properly at all time.

### **The rope has to be replaced immediately after**

- a fall, or a shock load
- discovered or assumed damages of the core or the cover
- wear or damage of the cover
- contact with harmful chemicals
- safety could no longer be ensured unequivocally



LIROS Safe Pro	LIROS ref.: 01011-1400
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LIROS GmbH	Sieggrubenstraße 7 D-95180 Berg	09293/8002-0 info@liros.com
Year of manufacture:	Purchase date:	Serial number:

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